

### ABSTRACT

An apparatus or system transmits a video signal of a screen of a PC or the like to a display such as a projector accurately at a high speed via a network. The apparatus or system includes a region determining unit comparing each block of a predetermined frame of a video signal composed of frames zone-divided into a predetermined number of blocks with each block corresponding to the block within an immediately preceding frame of the predetermined frame, and thereby determining a rectangular region including a region having a different pixel value; an extracting unit extracting a video signal included in (1) the determined rectangular region or (2) a rectangular region obtained from the determined rectangular region by applying a predetermined rule; and a transmitting unit transmitting the video signal extracted by the extracting unit.